







Crop Weather Calendar of Wheat:RangpurRegion (Districts: Rangpur, Kurigram, Gaibandha, Nilphamari, Lalmonirhat)
Bangladesh

Region: Rangpur	Wheat											Duration: 119 days						
Months	October			November				December				January				February		
Std.Week/Normal	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	
Rainfall (mm)	35.5	10.0	4.0	3.0	2.0	0.0	1.0	0.0	2.5	0.0	2.5	1.0	2.5	2.0	1.0	1.0	1.5	
Max. Temp. (°C)	31.2	30.6	30.0	29.8	29.0	28.3	27.7	26.7	25.1	24.7	24.1	22.7	22.4	23.2	23.4	24.7	25.9	
Min. Temp. (°C)	22.5	21.0	20.0	19.0	17.5	16.4	15.0	14.2	13.5	12.5	11.5	10.9	10.4	10.8	10.8	11.8	12.7	
Mean Temp. (°C)	26.8	25.8	25.0	24.4	23.3	22.3	21.3	20.4	19.3	18.6	17.8	16.8	16.4	17.0	17.1	18.3	19.3	
RHmax (%)	95.2	95.0	94.5	94.4	94.6	94.9	94.9	95.0	95.4	95.8	96.1	96.0	96.0	95.8	95.7	95.5	94.3	
RHMin (%)	64.5	60.8	58.7	55.9	54.0	50.9	50.6	53.5	56.2	56.2	55.2	58.5	57.8	56.2	54.2	51.6	48.0	
RHmean (%)	79.9	77.9	76.6	75.1	74.3	72.9	72.7	74.2	75.8	76.0	75.6	77.3	76.9	76.0	74.9	73.5	71.2	
SShr (hrs)	51.5	56.5	55.5	55.0	52.0	54.0	53.0	49.5	41.5	42.5	40.0	36.0	36.5	39.5	41.0	44.0	48.5	
WD (deg)	134	127	115	106	126	134	150	129	158	160	187	199	214	199	210	208	192	
WS(Km/hr)	6.3	6.1	6.6	6.6	6.3	6.4	5.6	6.0	5.7	5.6	5.6	5.7	5.7	5.7	5.6	6.2	6.6	
																		
	sowing			Germination				Vegetative Growth				Flowe ring	Grain Formation				Maturity to Harvesting	

Favourable Weather Conditions					
Minimum, and	3 to 4.5 ⁰ C				cooler nights
Optimum temperature	Around 25 ⁰ C				
Maximum Cardinal temperature	30- 32 ⁰ C				
Mean Daily Temperature		15 to 20 ⁰ C	15 to 20 ⁰ C		
Soil Moisture	High				dryness
Solar radiation					Bright sunny days
daily cu		0.17 to 0.87	0.17 to 0.87	0.17 to 0.87	
Normal Phase wise water requirement (mm)	47	128	77	137	39

Weather Warning			
Rainfall	>50 mm/day	>100mm/day	>100mm/day
Duration of wet spell	>50 mm for 3-4 days	>75 mm for 3-4 days	>50mm for 3-4 days
Cloudy Weather		Cloudy Weather	Cloudy Weather
Drought	20 days	20 days	20 days
High wind	>50 km/hr	>50 km/hr	>50 km/hr
Maximum Temperature	>30 ⁰ C	>30 ⁰ C	>30 ⁰ C
Minimum Temperature	<15 ⁰ C	<15 ⁰ C	<15 ⁰ C

Congenial Weather Condition for Pests & Diseases					
Blast	Continuous rains and average temperatures between 18-20°C during the flowering stage of the crop followed by sunny weather and humid days. Intensity increases at 30°C temperature with high relative humidity				
Leaf rust			Temperature 15-25°C, rain and high dew		
Loose smut				Temperature 22-25°C, Relative humidity 60-85%	
Black point					Rain during ripening
Stem borer			Maximum, minimum and average temperature ranged from 31.9-33.9°C, 22.2-26.3°C and 26.9-29.5°C, respectively. Average relative humidity of 80 per cent and rainfall		
Aphid			Mean temperature 18.7°C and relative humidity percentage 71.0%, mean weekly temperature 29.1°C and relative humidity 55%		